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SUBJECT Disposition of Four Schlieren Devices; Flanned BTB Experiments with Fifth

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INFO.

- Pour of the five Schlieren devices which the Lerlinor Technisches Duoro of SAC Transmasch received from VLD Carl Zeiss, Jena, are to be shipped from LTB to an unknown destination. Orders to crate the four here given in mid-Larch 1973. PTB personnel believe that the devices are to go to Sussia.
- 2. Only one Schlieren device is to remain permanently at LTD. Diploing. Incl Media and test explaner (fnu) Litter of the experimental department (Versuchsabteilung) of LTB are in charge of this device; they also juide the research work carried out with it. In March 1953, a test installation including the remaining schlieren device was completed. A single-cylinder Miesel test motor provided with a whirl chamber (imbellowmer) will be investigated by means of the Schlieren device. The whirl chamber is provided with two homosil-quartz windows allowing the study of flow and combustion processes inside the cylinder.
- 3. Tests to be undertaken seen will cover the following:
 - a. Cold motor: Injection of Fiesel fuel without ignition, study of flow processes;
 - b. arm motor: Injection of liesel fuel without ignition, study of flow processes;
 - c. arm motor: Injection of Diosel fuel with ignition, study of combustion processes.
- 4. The processes under investigation will be recorded with slow motion est German 4.2 cameras (A.C Zeitdehner), with a speed of 80,000 pictures per second.

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